Bio-Pyramid · MBP01-XZ2

User's Manual.

• Standard Accessories



o Camera Installation



○Instruction… ★ mark is important

Following XZ-2 User's Guide, set your camera as described below.

Gel documentation takes place in a darkroom environment and it is difficult to capture quality images with full automatic mode. Please select M (manual) mode for documentation. Followings are setting instruction on manual mode.



- ① Select M (manual) mode by using Mode Dial
 - ** Manual P18











5 Flash Off

Keep strobe inside the camera and flash won't go off



2 Camera Setting (2) adjusting aperture and shutter speed ★

1 Setting aperture

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Press ▲ on sub dial and display ◀ ► mark on screen. Select an "F8.0" F value with sub dial ◀ ►.
** Manual P18
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② Setting shutter speed

Press ▲ on sub dial and display ▲▼ mark. Select an shutter speed "2 (1/2) sec" with sub dial ▲►. The shutter speed can be set to minimum 1/2000 sec to maximum 16 minutes [BULB].

** Manual P18

	1 Press
STYLUS	② adjust with ▲ ▼



Memo: shutter speed can be adjusted with control ring as well

- 3 Camera Setting (3) ** Manual P46
- ① Long Exposure Noise Reduction

Press MENU button and select a "Custom Menu "with sub dial ▼ and press OK button. Select an "Exp/Metering/ISO" with sub dial ▼ and press OK button. Select a "Noise Reduct" with sub dial ▼, and set it ON and press OK button.

** Manual P61

② High ISO Noise Reduction Press MENU button and select a "Custom Menu "with sub dial ▼ and press OK button. Select an "Exp/Metering/ISO" with sub dial ▼ and press OK button.

Select a "Noise Filter" with sub dial ▼, and set it Standard and press OK button.

** Manual P61



Press MENU button and select a "Custom Menu "with sub dial ▼ and press OK button. Select an "Display" with sub dial ▼ and press OK button. Select a "Sleep" with sub dial ▼, and set it OFF and press OK button. ** Manual P60

④ Custom mode Settings (Restore above preselected settings)

Press MENU button and select a "Shooting Menu 1" with sub dial ► and press OK button. Select an "Reset/C Mode Setup " with sub dial ▼ and press OK button. From the menu, select a "Custom Mode 1" with sub dial ▼, and press OK button. Settings are registered to Mode dial "C 1"

** Manual P48



Once registered, just set mode dial to C1 from second time

Meme on battery charging and remote control

AC adapter [F-3AC] and remote cable [RM-UC1] has same connector shape. Therefore, camera can be operated while using [F-3AC] but unable to use [RM-UC1] simultaneously.
 Please fully charge battery before connecting remote cable to camera.

4 Setting Up Transilluminator

- ① Place focusing sheet on the Transilluminator.
- 2 Place Hood on the 1
 - \Rightarrow Place Hood on the Transilluminator after installing camera.
 - \Rightarrow place Hood in a way that it **covers entire emission surface.**
- ③ Focusing sheet will become luminous once Transilluminator is turned on.
 **image is MBP-UVCR



5 Camera Focus and Zoom Setting ★

1 Focusing

\Rightarrow Choosing focus target

Press sub dial < and display the AF target.

Select the AF target to which you want to focus on with sub dial and press OK button.

** Manual P26



\Rightarrow Focus Lock setting.

Press OK button and set focus with sub dial ▲▼. Select "S-AF" with sub dial ►, and press OK button. ** Manual P14

- \Rightarrow Keeping the shutter button pressed halfway, and make sure AF target position.
- \Rightarrow Adjust zoom with Zoom Lever as it requires.



② MF (Manual Focus) Setting

 \Rightarrow Switching to MF after procedure ① would fix focus position.



⇒ Press OK button and change focus setting with sub dial ▲ ▼.
 Set MF with sub dial ▶ and press OK button. Readjust with sub dial when out of focus.
 Press and hold OK button for a while changes adjusting of F value and manual focus.



6 Gel Documentation

Turn on the Camera

- \Rightarrow Place the gel right in center and turn on the Transilluminator.
- \Rightarrow Turning the zoom lever to the right and adjusts to appropriate shooting range.
- ** Manual P10



7 Adjusting Brightness ★

Adjusting brightness with "Shutter Speed"

- ⇒ Shutter speed means exposure time. Slow shutter speeds let more amounts of light reaches the image sensor and thus are used to brighten images. Please adjust accordingly.
 - (Tip: start with rough estimates and narrow a target down for precise adjustment)
- ** Manual P18



8 Manual Focus

When it is difficult to focus with AF (e.g. gel is too thick, or unable to use focusing sheet), use manual focus instead.

- 1 Press OK button and display the Live Control, and select the MF mode.
- ② Adjust focusing position with sub dial
 - ** Manual P43



9 Transfer Picture data to PC.

You can transfer images to a computer by connecting the camera to the computer with the provided USB cable and software (CD-ROM).,

** Manual P74

10 Saving Image / Viewing Photograph / Erasing / Printing

- ① Captured images will be save in SD card ** Manual P83
- ② To see captured images, please select picture from [playback mode] ** Manual P11
- ③ To find images from the list (Index display) ** Manual P11
- (4) To enlarge images (Close-up playback) ** Manual P11
- 5 Erasing Images ** Manual P12
- 6 Printing Images ** Manual P70

Other settings ... Please refer XZ-2 Instruction manual for detail.

The guide is one of the standard settings for documentation and for reference purpose only.

Please adjust details in accordance with your particular observing environment.

- White Balance When you shoot with color, please adjust white balance in accordance with color tone of light source. You will be able to capture image without any color bias.
 ** Manual P38
- Image Size- Setting image (pixel) size. Smaller data (pixel) size is easy to handle.Large data (pixel) size is preferable for printing and enlarging.** Manual P62Date- Able to verify captured date.** Manual P28

Large size observing window (with UV shield filter)

UV transmittance is less than 0.1%.

It eliminates most UV rays.

★ Even with the shield, there is still a small amount of transmittance.
 Therefore, please avoid observing continuously for long time.



Photo Printer *sold separately - Epson Picture Mate PM225 etc. Able to print images in just 3 easy steps. **manual P71





*operation may vary depending on the model. Please refer to manual of your printer model ** Image on the right is BP-UVOR.

Filters:

The 3 sharp-cut filters cut excitation wave length and transmit only emission wavelength. SC-58 cuts wavelength below 580nm and SC-60 cuts below 600nm. These can be used for EtBr. ALSC-56 cuts wavelength below 560nm, and can be used for SYBR Green/SYPRO Orange etc. Please switch filters for appropriate regent. Also, any other filters with size 75mm square can be set onto filter-tray.



Bio-Pyramid : Specification	
◆ Maximum shooting area	265mm×205mm (= interior dimension
	* May vary, depends on the camera.
 Shooting range 	
Include φ52mm sleeve	310mm
With super mount	350mm~360mm
	\star NOTICE : Please select the camera that can be
	focused to shooting area within these ranges.
♦ Filter Glass filter	Use φ52mm
Gelatin filter	Use 3 inch square filter
◆ Viewer window UV shield filter	MAX 0.09% Average 0.02%
Transmittance range (220~450nm)	(measured, not guaranteed number)
♦ Size	W287 ×D227mm (=Hood External Dimensions)
	H 310mm (include camera mounting part)
	H 415mm (include super-mount)
Weight Body/Super-mount	1040g / 200g